Laboratorio Amazon Gateway y Lambda

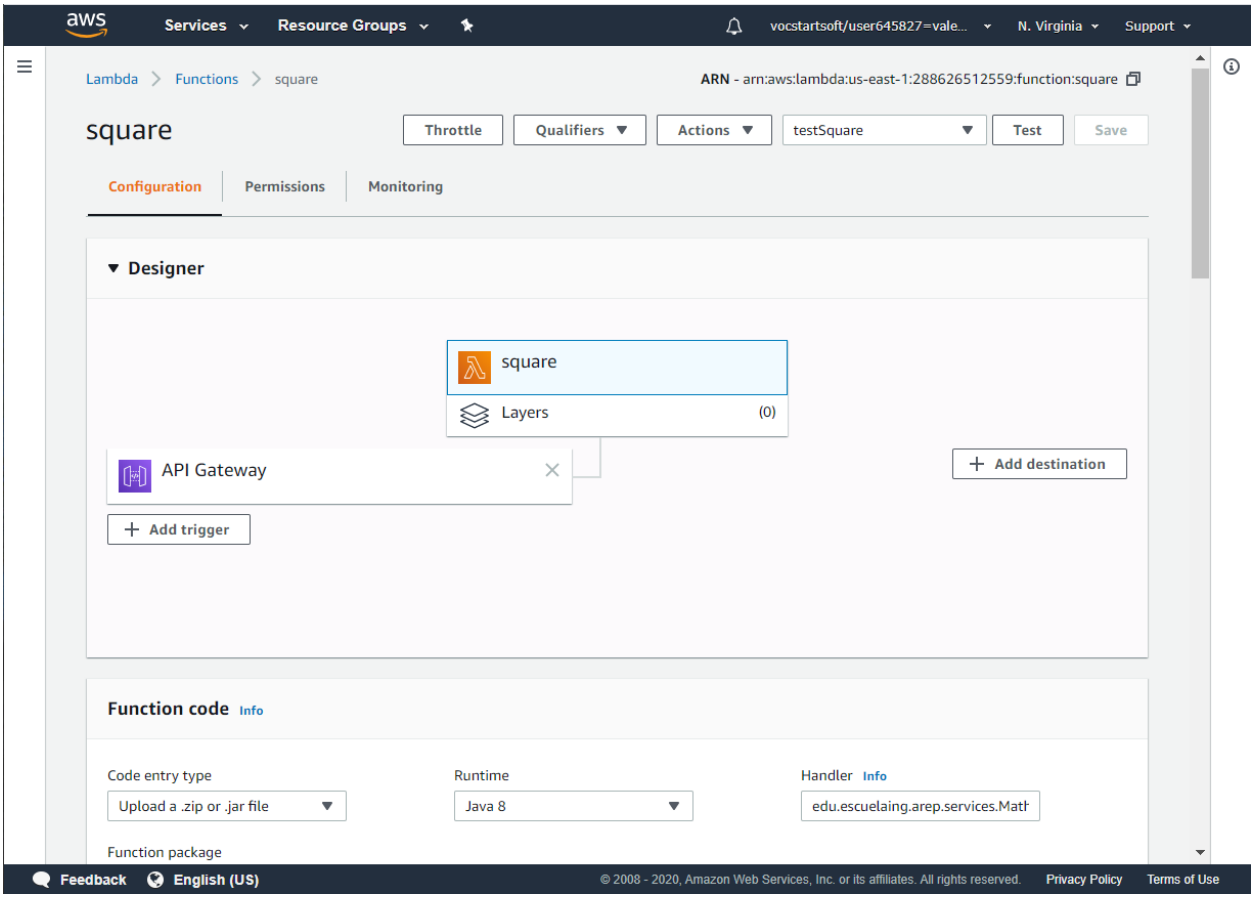
Repositorio GitHub: https://github.com/Siabell/Arep-LambdaGateway/

1. Usando Amazon Gateway y lambda crear un servicio que reciba un parámetro numérico y retorne el cuadrado del número.

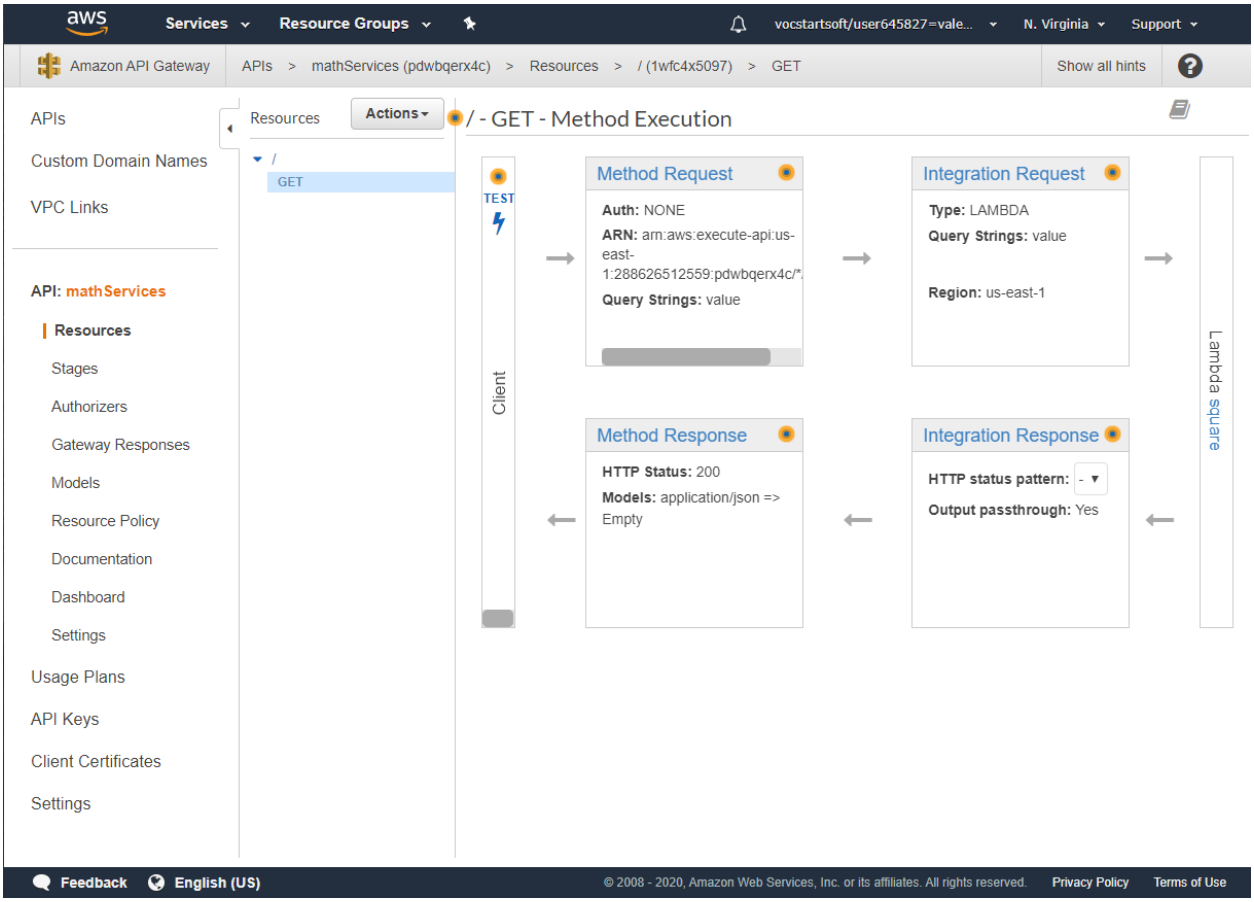
   - Función de retornar el cuadrado de un numero

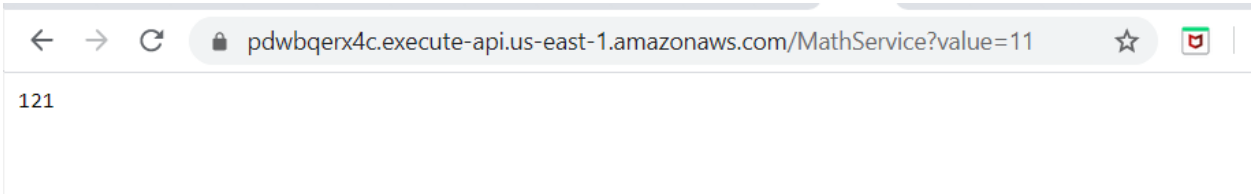
```java
package edu.escuelaing.arep.services;

public class MathServices {

    public static  Integer square(Integer i) {
        return i*i;
    }

}

```

   - Función Lambda

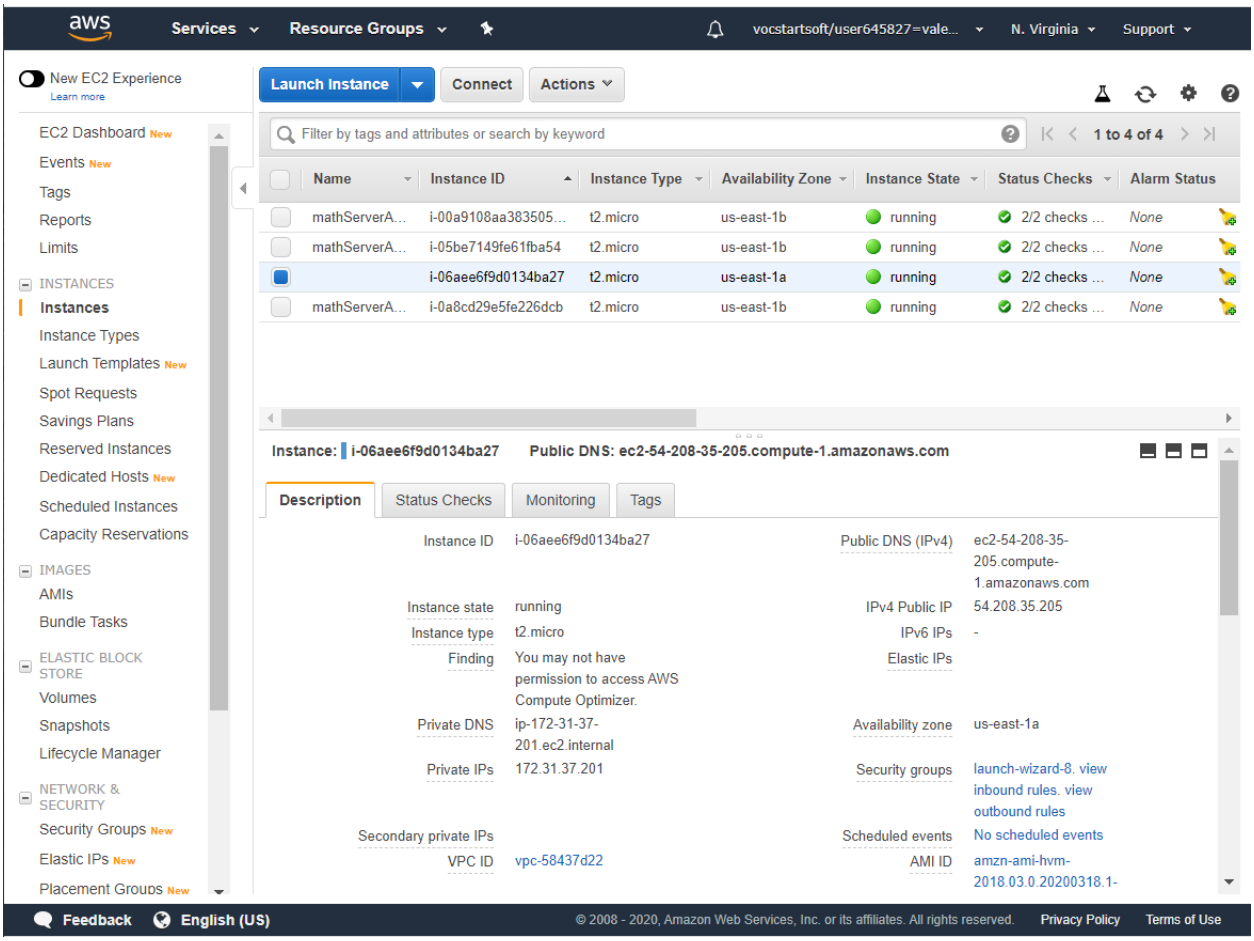


- API Gateway Get

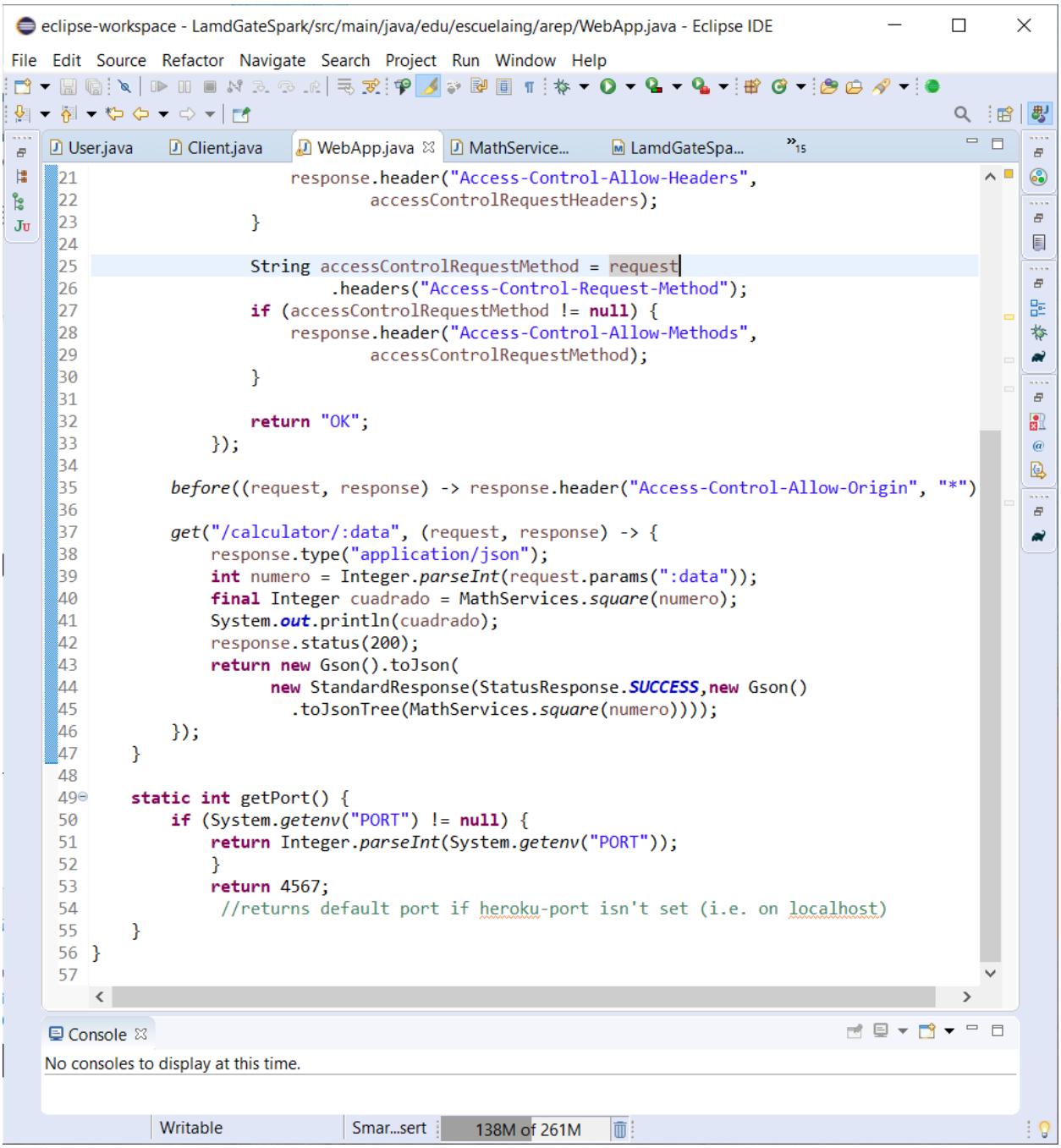


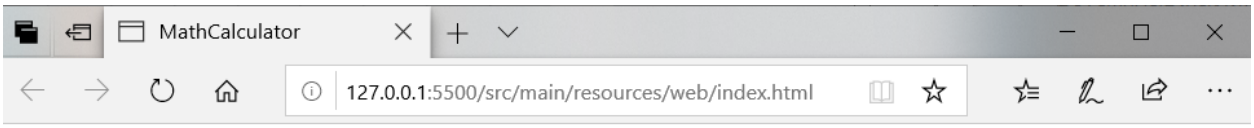


2. Crear una máquina virtual Linux en AWS



3. Crear una aplicación WEB, usando Spark, Que tenga un formulario que le pida al usuario un número y le regrese el cuadrado del mismo.


eclipse-workspace - LamdGateSpark/src/main/java/edu/escuelaing/arep/WebApp.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
User.java
Client.java
WebApp.java
MathService...
LamdGateSpa...
response.header("Access-Control-Allow-Headers",
accessControlRequestHeaders);
}
String accessControlRequestMethod = request
.headers("Access-Control-Request-Method");
if (accessControlRequestMethod != null) {
response.header("Access-Control-Allow-Methods",
accessControlRequestMethod);
}
return "OK";
});
before((request, response) -> response.header("Access-Control-Allow-Origin", "*")
get("/calculator/:data", (request, response) -> {
response.type("application/json");
int numero = Integer.parseInt(request.params(":data"));
final Integer cuadrado = MathServices.square(numero);
System.out.println(cuadrado);
response.status(200);
return new Gson().toJson(
new StandardResponse(StatusResponse.SUCCESS,new Gson()
.toJsonTree(MathServices.square(numero))));
});
}
static int getPort() {
if (System.getenv("PORT") != null) {
return Integer.parseInt(System.getenv("PORT"));
}
return 4567;
//returns default port if heroku-port isn't set (i.e. on localhost)
}
}
Console
No consoles to display at this time.
Writable
Smar...sert
138M of 261M



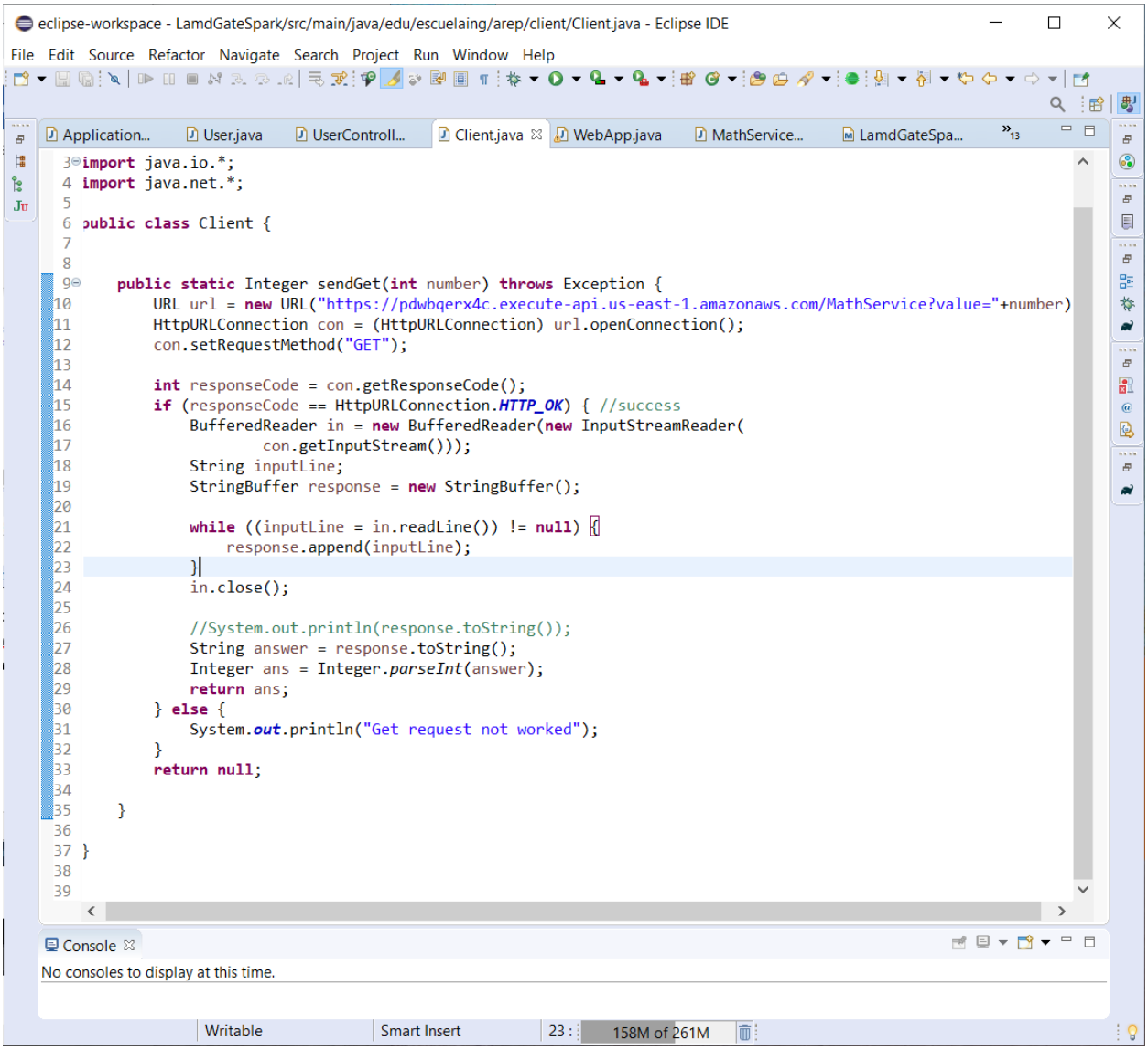
MathCalculator

Number:

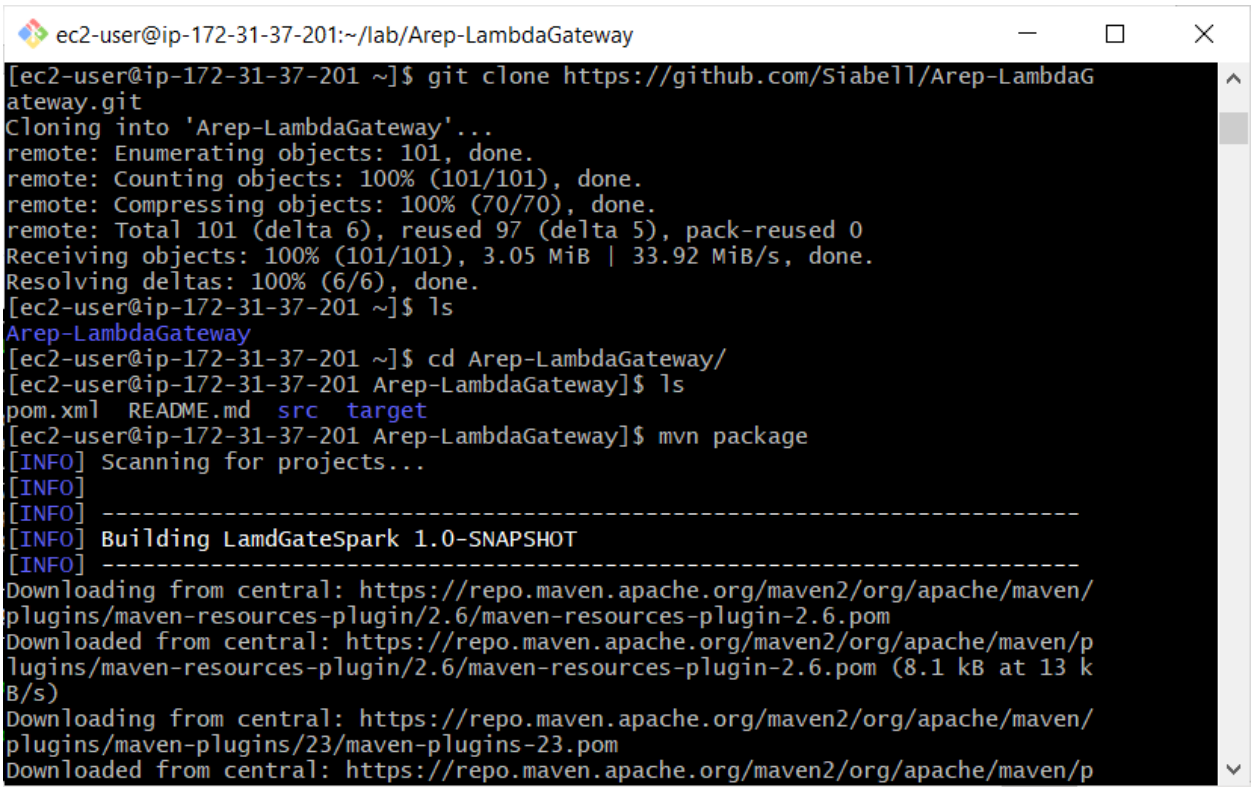
Calculate

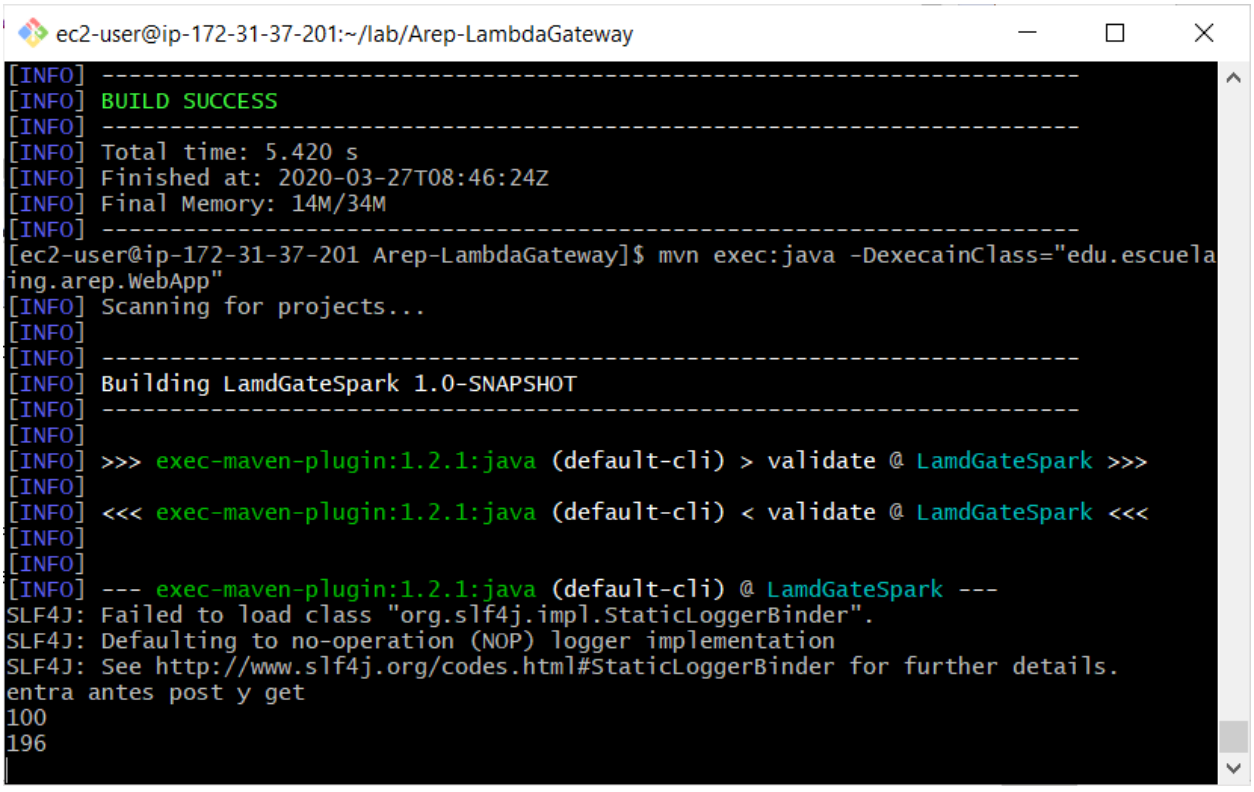
Square:

- La aplicación Web debe usar el servicio de Amazon GateWay para calcular el valor.

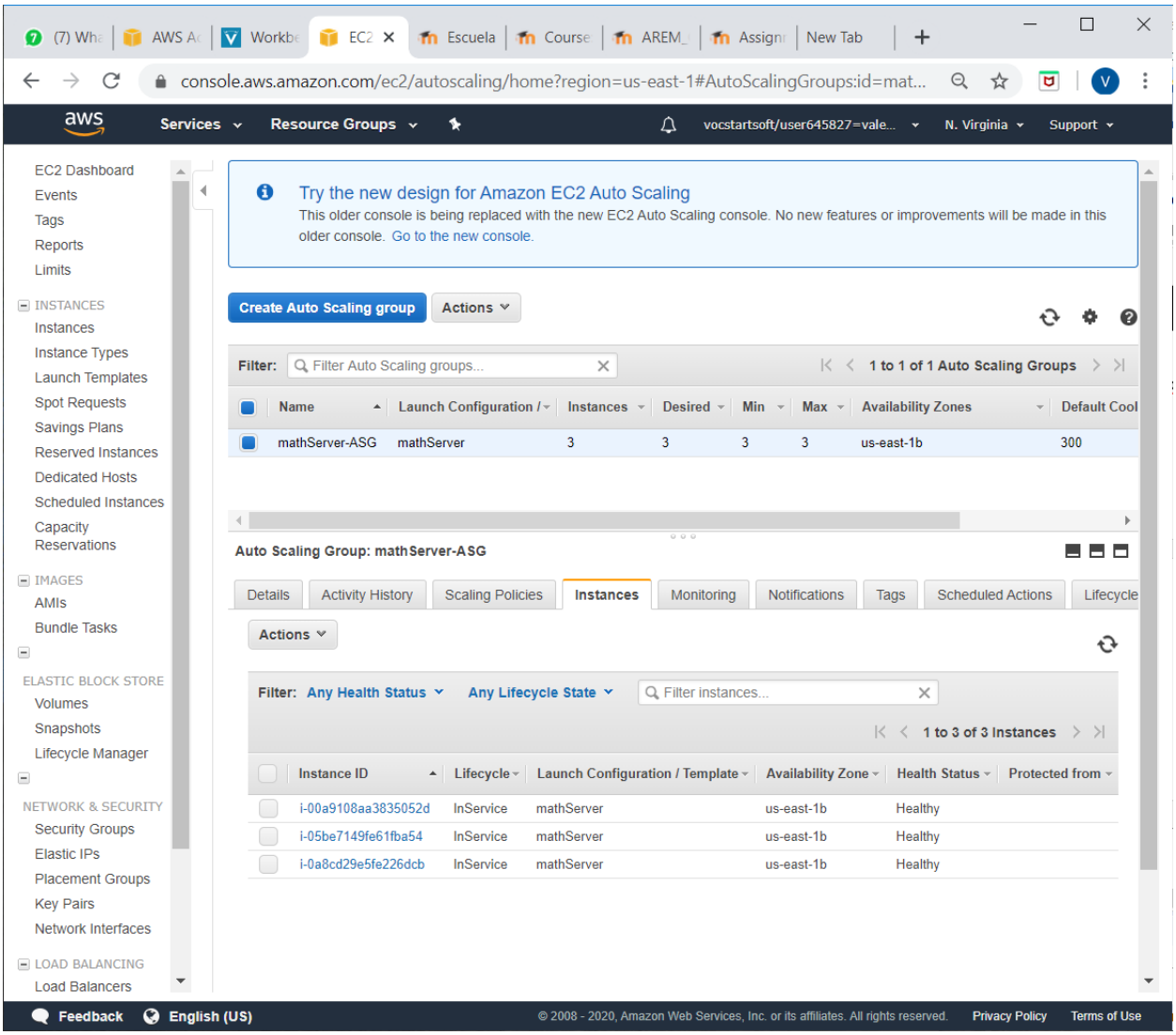


- Desplegar en AWS (agregar las reglas de entrada).

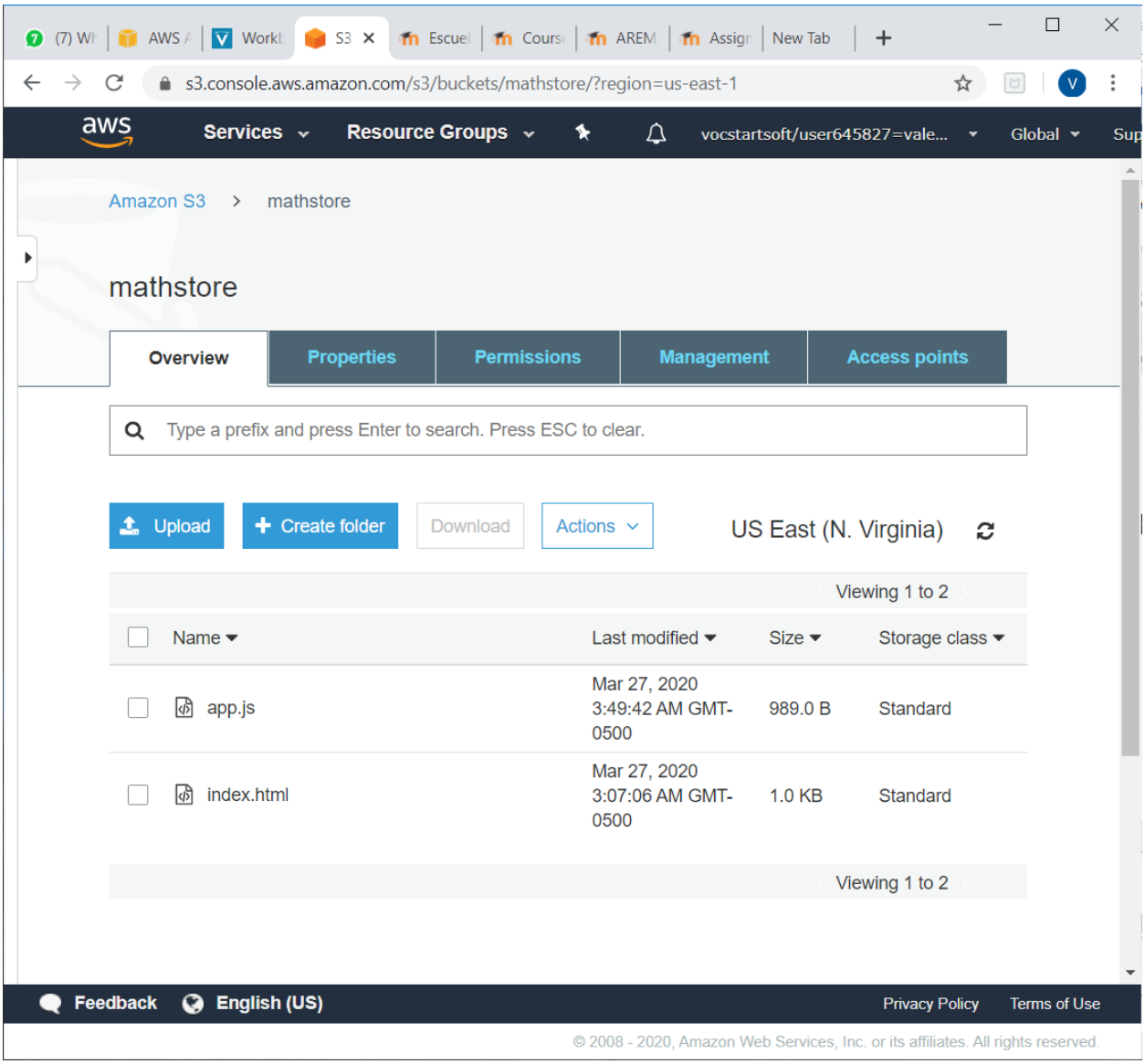




- Configurar la aplicación dentro de un grupo de autoescalabilidad.



- S3 con el formulario y js, configurado para que funcione con la máquina virtual de aws y la configuración de Cors


s3.console.aws.amazon.com/s3/buckets/mathstore/?region=us-east-1
Services
Resource Groups
Global
Amazon S3
mathstore
mathstore
Overview
Properties
Permissions
Management
Access points
Type a prefix and press Enter to search. Press ESC to clear.
Upload
Create folder
Download
Actions
US East (N. Virginia)
Viewing 1 to 2
Name
Last modified
Size
Storage class
app.js
Mar 27, 2020 3:49:42 AM GMT-0500
989.0 B
Standard
index.html
Mar 27, 2020 3:07:06 AM GMT-0500
1.0 KB
Standard
Viewing 1 to 2
Feedback
English (US)
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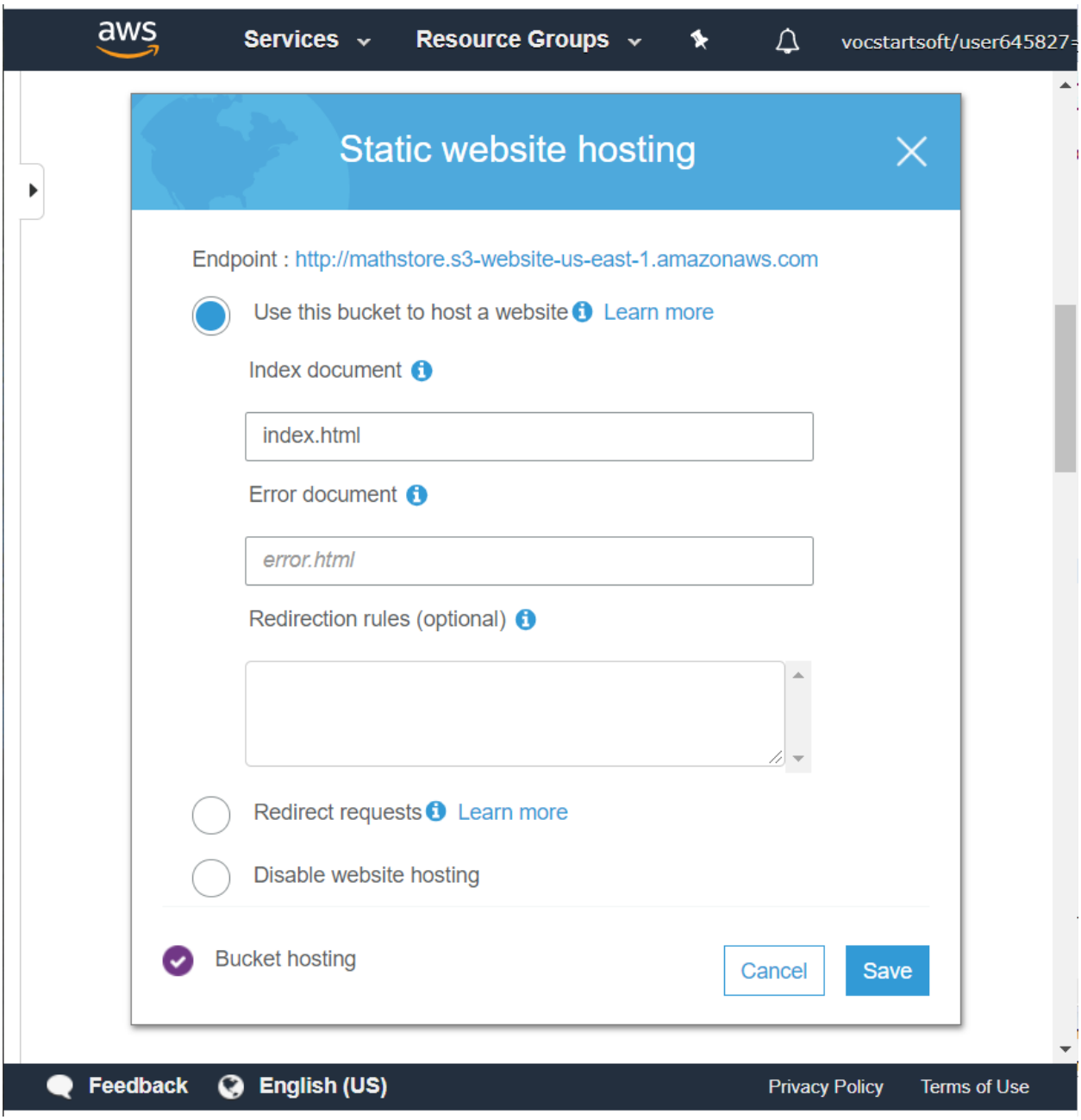
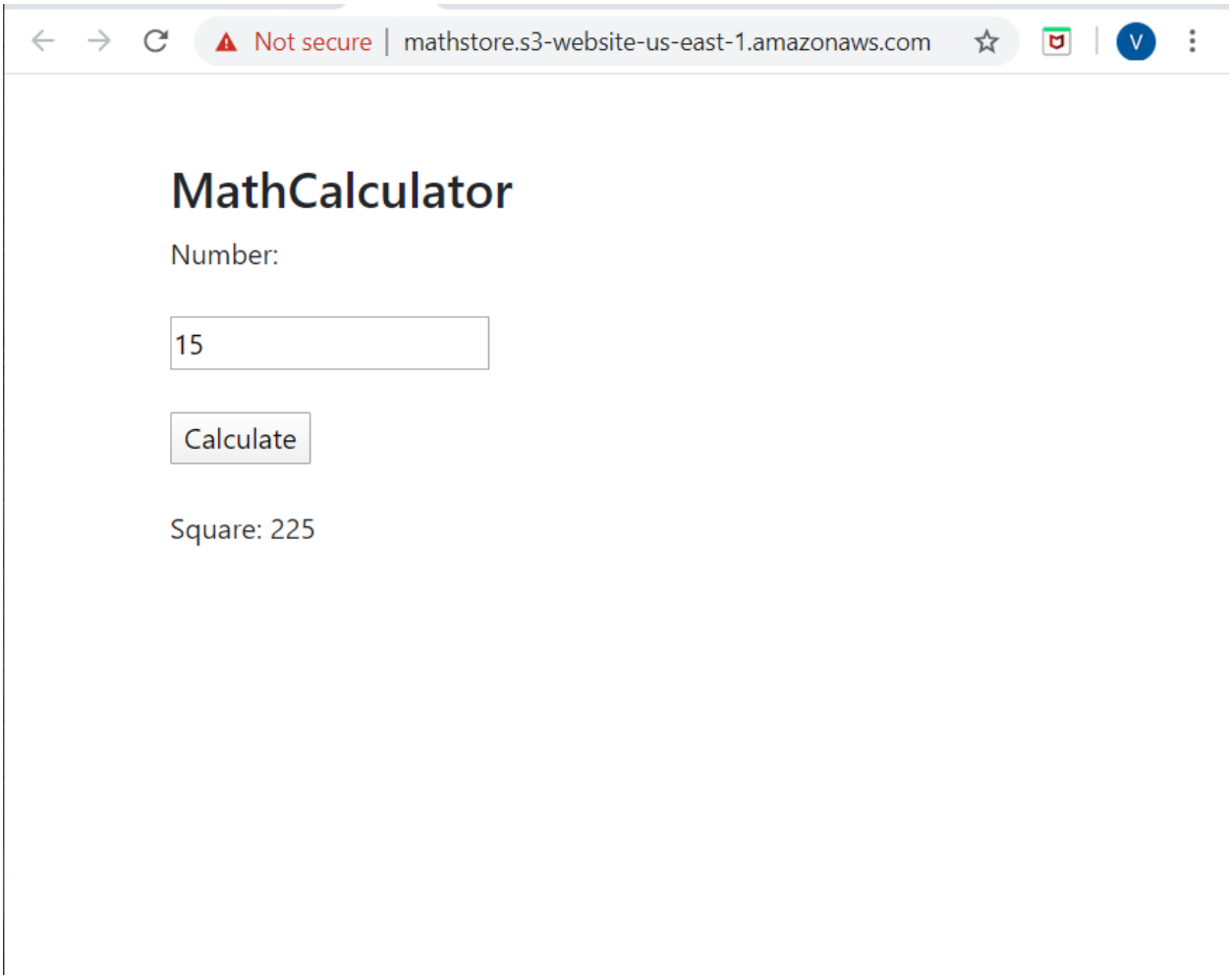


4. Probar la aplicación WEB.


Not secure | mathstore.s3-website-us-east-1.amazonaws.com
MathCalculator
Number:
15
Calculate
Square: 225